



SERVICE BULLETIN

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OXYGEN - ATA SYSTEM 35

P/N 898-GT0C50, P/N 898-JT0C50, P/N 898-JT0C77

CYLINDER AND REGULATOR ASSEMBLY

CORRECTION FOR PREMATURE ACTUATION OF SAFETY DISC IN SAFETY OUTLET.

1. SUMMARY

AVOX P/N's 898-GT0C50, 898-JT0C50 and 898-JT0C77 Cylinder and Regulator Assemblies (CRA's) have experienced premature actuation of the safety device which allows the oxygen contained in the cylinder to escape.

AVOX has determined that the premature actuation of the safety device is caused by the washer that provides the gas seal under the safety disc (see Figure 1).

Table 1
Cylinder & Regulator Assembly Part Numbers and Aircraft Affected

AVOX Systems Part Number	A/C Mfr P/N	Aircraft Affected
898-GT0C50	GC481-0090-1	BA Global Express
898-JT0C50	GC481-0090-3	CL600-2C10 (CRJ 700) CL600-2D15 (CRJ 705) CL600-2D24 (CRJ 900) BD-700-1A10
898-JT0C77	BA670-44011-1	CL600-2C10 (CRJ 700) CL600-2D15 (CRJ 705) CL600-2D24 (CRJ 900)
Note: These units may be installed on aircraft other than the models listed above.		

2. PLANNING INFORMATION

A. Effectivity

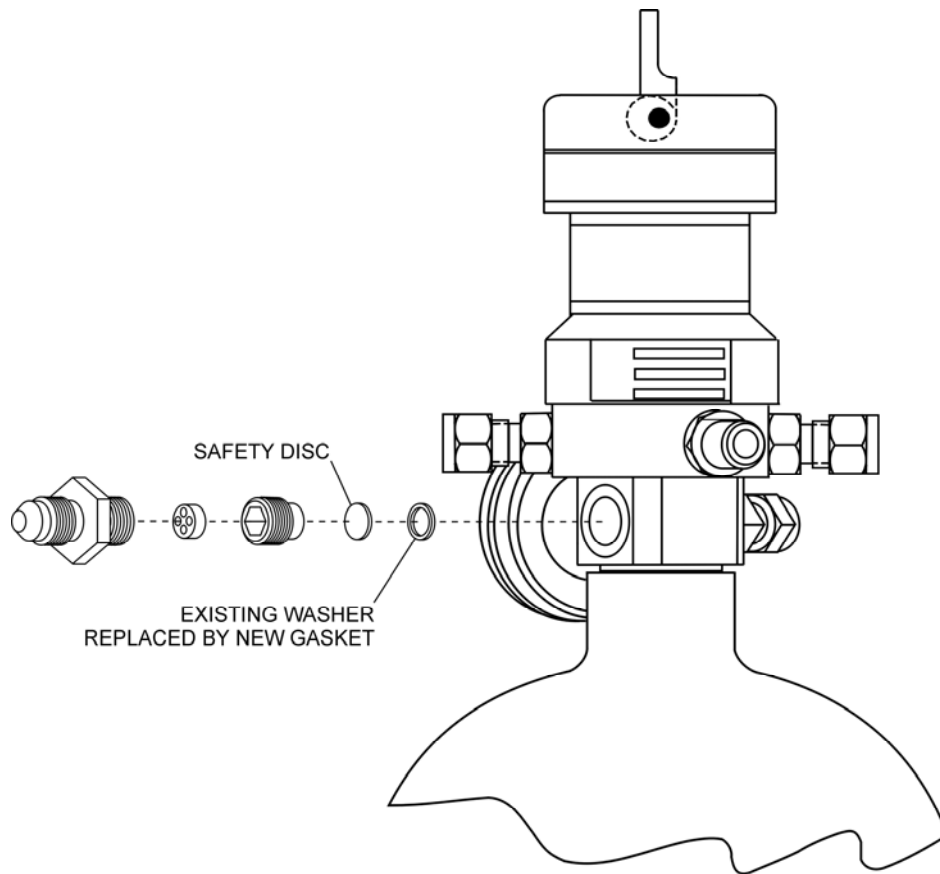
All AVOX P/N 898-GT0C50, P/N 898-JT0C50 and P/N 898-JT0C77 Cylinder & Regulator Assemblies as shown in Table 1 installed on aircraft or held as spares or replacement parts.

B. Reason

AVOX Systems has received a number of reports describing premature actuation of the safety device that resulted in loss of the oxygen contained in the cylinder.

C. Description

- (1) As a correction for safety devices that could actuate prematurely, this Service Bulletin (SB) provides a procedure for the identification of units needing correction and for having the correction made to these units by AVOX Systems or a service facility specifically authorized by AVOX Systems.
- (2) You are authorized to make copies of this SB and give them to other persons. If you copy this SB, you must copy all of the SB.



Safety Device Parts
Figure 1

2. PLANNING INFORMATION, (Continued)

D. Accomplishment

To arrange for this correction contact AVOX Systems (see paragraph 3. on page 6)

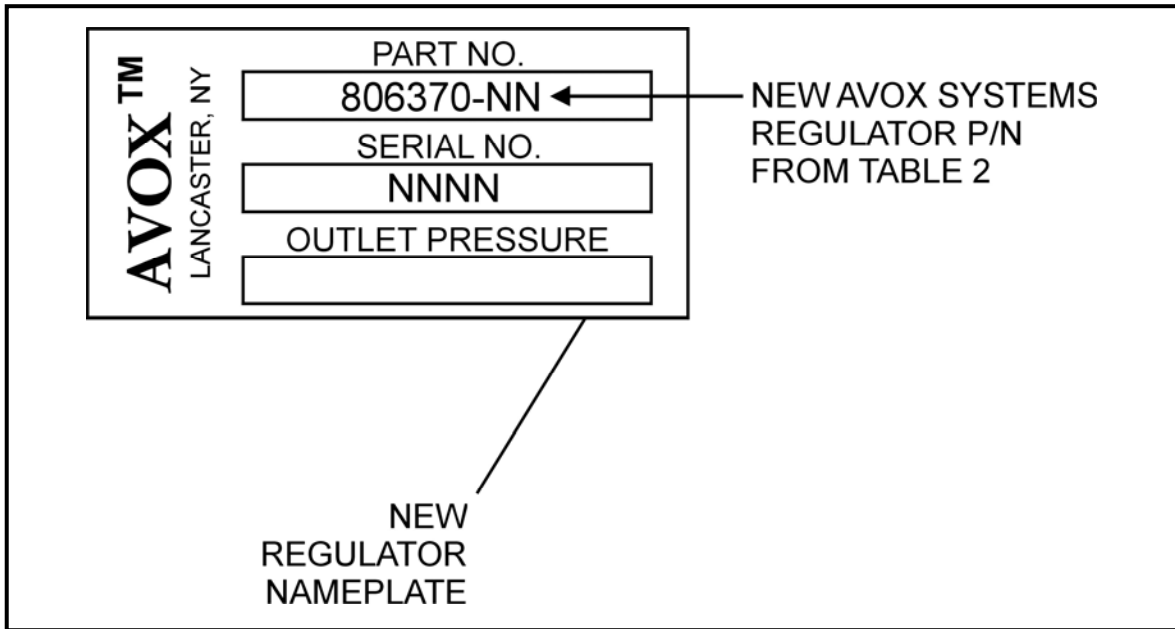
- (1) For AVOX Cylinder & Regulator Assemblies listed in Table 1 that are installed in aircraft, this SB is to be accomplished at the next major Cylinder & Regulator Assembly maintenance opportunity requiring the removal of the Cylinder & Regulator Assembly from the aircraft such as hydrostatic requalification and/or regulator overhaul, but in no case later than September 1, 2009. The service ordered will be performed during which the washer will be replaced with a gasket, and the unit will be refilled with oxygen and functionally tested at no additional cost. The nameplates will be replaced on the regulator and the cylinder and regulator assy as described in paragraph (4). The nature of the correction is such that it must be accomplished at the factory or at a facility specifically authorized by AVOX Systems.



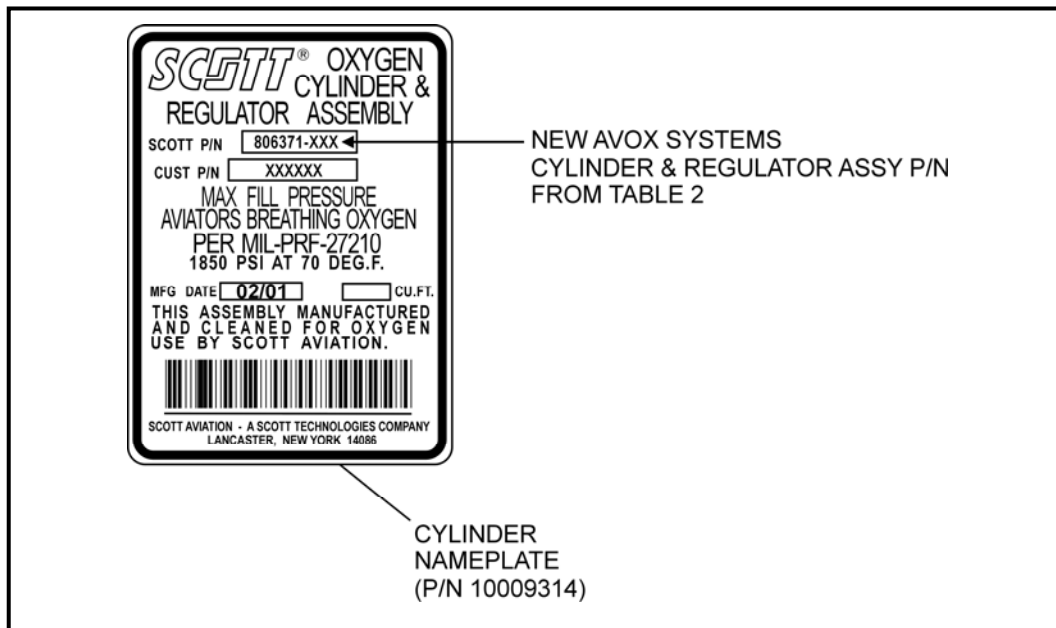
- (2) Any Cylinder and Regulator Assembly with a safety plug washer that is found empty as a result of premature actuation of the safety device should be returned to AVOX Systems for replacement of the safety disk, the washer with a gasket and a part number change as per Table 2. The nature of the correction is such that it must be accomplished at the factory or at a facility specifically authorized by AVOX Systems. AVOX Systems will at no cost:
- (a) Replace the safety disk and replace the washer with a gasket following steps (1)-(6) under 3.A. in the DISASSEMBLY section and steps (1)-(3) under 11.B. in the ASSEMBLY section of the CMM.
 - (b) Clean the cylinder per step 6 in the CLEANING section of the CMM.
 - (c) Refill the cylinder and regulator assy with oxygen per step 12 in the ASSEMBLY section of the CMM.
 - (d) Functionally test the cylinder and regulator assy per steps 5. – 8. in the TESTING AND FAULT ISOLATION section of the CMM.
 - (e) Replace the nameplates on the regulator and the cylinder and regulator assy as described in paragraph (4).
- (3) The AVOX Cylinder & Regulator Assemblies listed in Table 1 that are in stores or spares should be returned to AVOX Systems or a repair facility as directed by AVOX Systems before being installed on an aircraft or at the latest at the next hydrostatic requalification.
- NOTE: Shipping must be in strict accordance with the rules that apply to the method of shipment selected.
- (4) AVOX Systems will replace the nameplates on the regulator and the cylinder and regulator assy as follows. The new regulator P/N in Table 2 will be printed on the nameplate as shown in Figure 2 and affixed to the regulator as shown in Figure 4. The new cylinder and regulator assy P/N in Table 2 will be printed on the nameplate as shown in Figure 3 and affixed to the cylinder and regulator assy as shown in Figure 5.

Table 2
Old P/N to New P/N Conversion

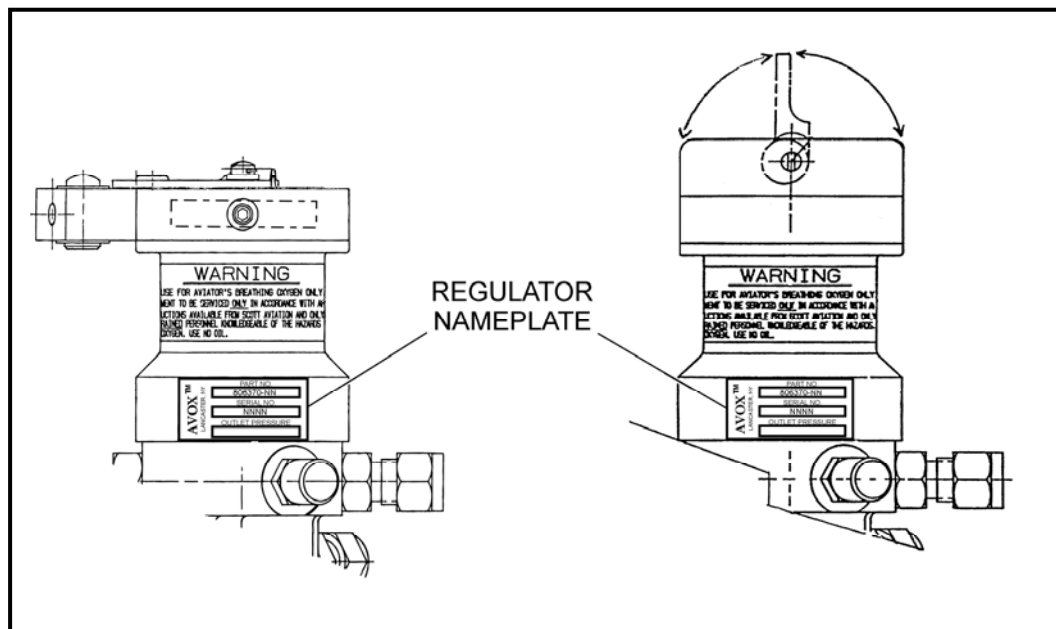
Old Scott CRA P/N See Figure 3	New AVOX CRA P/N See Figure 3	Old Scott Regulator P/N (See Figures 2 & 4)	New AVOX Systems Regulator P/N (See Figures 2 & 4)
898-GT0C50	806371-230	803946-05	806370-05
898-JT0C50	806371-130	803946-06	806370-06
898-JT0C77	806371-120	803946-06	806370-06



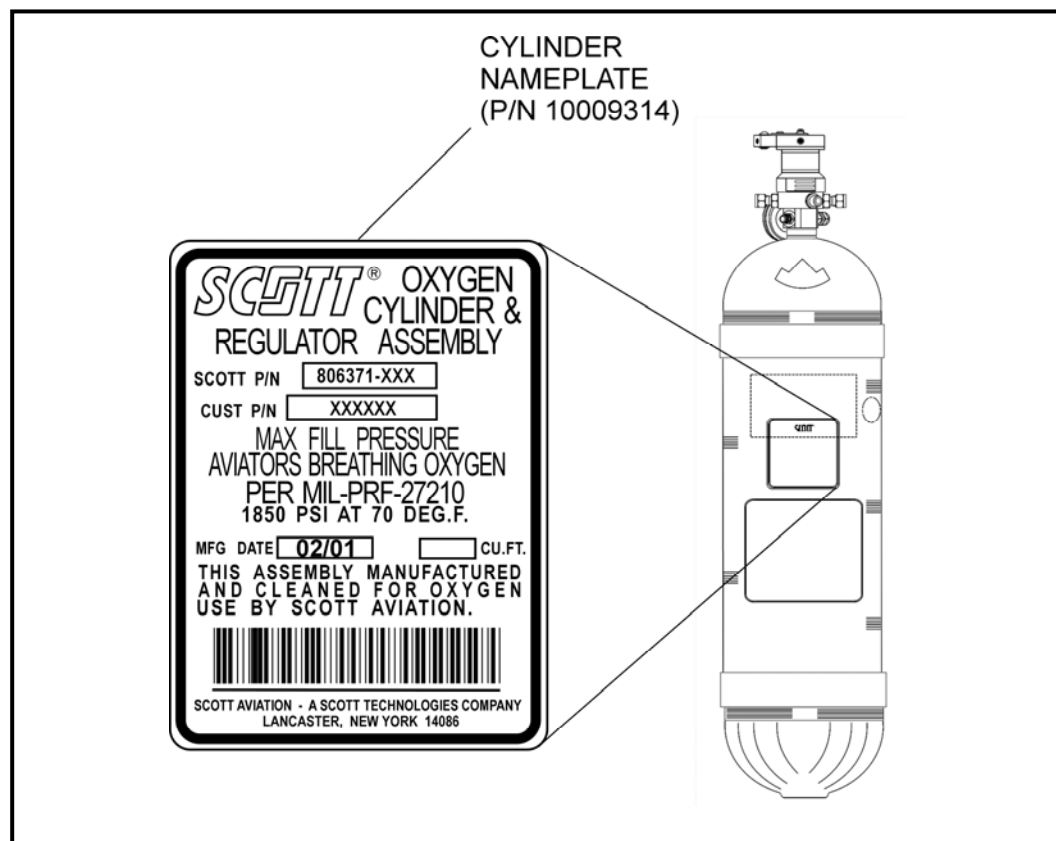
New Regulator Nameplate
Figure 2



New Cylinder Nameplate
Figure 3



Location of Nameplate on Regulator
Figure 4



Location of Nameplate on Cylinder
Figure 5



E. Approval

The technical aspects of this Service Bulletin have been reviewed by the Federal Aviation Administration (FAA).

F. Manpower

No additional manpower is required. The SB is to be accomplished at the next major Cylinder & Regulator Assembly maintenance opportunity requiring the removal of the Cylinder & Regulator Assembly from the aircraft such as hydrostatic requalification and/or regulator overhaul.

G. Weight and Balance

The weight difference between the washer removed and the gasket installed is negligible. The effect on weight and balance can be ignored.

H. Reference

AVOX Systems CMM 35-21-99 for P/N 898 Series Cylinder and Regulator Assemblies.

J. Interchangeability of Parts

After this SB is completed, the new P/N's 806371-[] fully replace the existing P/N's in accordance with Table 3.

Table 3
Cylinder & Regulator Assembly Part Numbers

Part Number Before Corrective Action	Part Number After Corrective Action
898-GT0C50	806371-230
898-JT0C50	806371-130
898-JT0C77	806371-120

3. MATERIAL INFORMATION

Required material will be provided free of charge by AVOX Systems when the subject Cylinder & Regulator Assemblies are returned to AVOX Systems or to a repair facility as directed by AVOX Systems (see Table 3). To have this correction installed contact AVOX Systems at:

AVOX Systems Inc.
Attn: Len Suba
Service Dept.
225 Erie Street
Lancaster, NY 14086
USA

Tel: 716-686-1555
AOG Repair After Hrs: 716-683-5100
Fax: 716-681-1089
E-mail: avoxservices@avox.zodiac.com



3. MATERIAL INFORMATION (Continued)

WARNING: **PACKAGING OF THE CRA WITHOUT SECURING EVERY PORT WITH A PROTECTIVE COVER CAN RESULT IN CONTAMINATION OF THE CYLINDER CONTENTS WHICH CAN RESULT IN A FIRE OR EXPLOSION THAT CAN CAUSE INJURY OR DEATH.**

WARNING: **ONLY THE AVOX FACTORY OR A FACILITY SPECIFICALLY AUTHORIZED BY AVOX SYSTEMS CAN MAKE THIS CORRECTION. ATTEMPTS BY OTHERS TO PERFORM THIS CORRECTION MAY RESULT IN INJURY OR DEATH TO THE PERSON DOING THE WORK OR TO SUBSEQUENT USERS OF THE CRA.**

CAUTION: **CYLINDER AND REGULATOR ASSEMBLIES ARE MARKED AS HAZARDOUS MATERIAL FOR SHIPPING AND FEDERAL REGULATIONS APPLY TO THE PACKAGING AND THE MARKING OF PACKAGES. FEDERAL REGULATIONS ALSO RESTRICT THE AIR SHIPMENT OF CRA'S.**

CAUTION: **YOU CAN DAMAGE THE UNIT IF YOU RETURN THE UNIT WITHOUT CAPS SECURELY INSTALLED ON EVERY OPEN PORT.**

NOTE: Before shipping the unit to AVOX Systems or to a repair facility as directed by AVOX Systems, wire the regulator in the "OFF" position, remove all fittings, connectors, and transducers that were not installed by AVOX Systems. Ship the unit charged with caps securely fastened on all open ports. The unit will be returned with the regulator wired in the "OFF" position. The regulator will be returned in its standard configuration. All non factory-installed fittings, connectors, and transducers will be returned separately off the regulator.

Table 4
Materials Supplied Free of Charge

AVOX Systems P/N	Description
10013469	Safety Plug Gasket
10013529	Nameplate
10009314	Nameplate



5. APPENDIX - How To Contact AVOX Systems

Mail to: AVOX Systems Inc.
Attention: Technical Support
225 Erie Street
Lancaster, NY 14086-9502
USA

Fax to: 716-681-1089 (Attention: Technical Support)

E-mail to: avoxcs@avox.zodiac.com

A. To get technical aid, contact the AVOX Technical Support Department.

- Telephone: 1-800-459-3690 or 1-716-686-1798
- Fax: 1-716-681-1089
- E-mail: avoxcs@avox.zodiac.com

B. To get a Cylinder & Regulator Assembly repaired, overhauled or hydrostatically requalified, contact AVOX Systems per paragraph 3 on page 6.

NOTE: Do not return Cylinder & Regulator Assemblies to AVOX Systems unless you have received a written return authorization (RMA). Any Cylinder & Regulator Assemblies without a return authorization will be returned to the sender in the condition received. The sender assumes the full responsibility for any unauthorized returns.

NOTE: All returned Cylinder & Regulator Assemblies must be properly capped, plugged and pressurized. There will be a charge for Cylinder Regulator Assemblies that are not properly capped, plugged and pressurized.

C. To get a copy of the CMM 35-21-99, contact the AVOX Technical Publications Department. Give the aircraft model when you send an order for a CMM copy. To get copies of the AVOX Publications Index, and recently published SB's & SIL's on-line refer to the AVOX Systems website:

www.avoxsys.com.

- Telephone: 1-716-683-5100
- Fax: 1-716-681-1089
- E-mail: avoxtechpub@avox.zodiac.com
- Publications Index: log onto www.avoxsys.com

D. Warranty Coverage

The replacement copper washer is supplied free of charge. **NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED PURPOSE SHALL APPLY TO THIS ACTION.**